

RSL to be matched

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(571)273-0221

09/731899

11/3/05 CRFE OIPE SR

9

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 09/731,899
Source: OIPE
Date Processed by STIC: 10/31/05

ENTERED



O/PK

RAW SEQUENCE LISTING

DATE: 10/31/2005

PATENT APPLICATION: US/09/731,899

TIME: 11:22:58

Input Set : A:\00558852.txt

Output Set: N:\CRF4\10312005\I731899.raw

3 <110> APPLICANT: Chain, Benjamin
 5 <120> TITLE OF INVENTION: CHIMERIC PEPTIDES AS IMMUNOGENS, ANTIBODIES THERETO, AND
 METHODS
 6 FOR IMMUNIZATION USING CHIMERIC PEPTIDES OR ANTIBODIES
 8 <130> FILE REFERENCE: 20555/1203433-US1
 10 <140> CURRENT APPLICATION NUMBER: 09/731,899
 11 <141> CURRENT FILING DATE: 2000-12-08
 13 <150> PRIOR APPLICATION NUMBER: 60/169,687
 14 <151> PRIOR FILING DATE: 1999-12-08
 16 <160> NUMBER OF SEQ ID NOS: 27
 18 <170> SOFTWARE: PatentIn version 3.3
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 59
 22 <212> TYPE: PRT
 23 <213> ORGANISM: Homo sapiens
 25 <400> SEQUENCE: 1
 27 Glu Val Lys Met Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val
 28 1 5 10 15
 31 His His Gln Lys Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys
 32 20 25 30
 35 Gly Ala Ile Ile Gly Leu Met Val Gly Gly Val Val Ile Ala Thr Val
 36 35 40 45
 39 Ile Val Ile Thr Leu Val Met Leu Lys Lys Lys
 40 50 55
 43 <210> SEQ ID NO: 2
 44 <211> LENGTH: 40
 45 <212> TYPE: PRT
 46 <213> ORGANISM: Homo sapiens
 48 <400> SEQUENCE: 2
 50 Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val His His Gln Lys
 51 1 5 10 15
 54 Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile
 55 20 25 30
 58 Gly Leu Met Val Gly Gly Val Val
 59 35 40
 62 <210> SEQ ID NO: 3
 63 <211> LENGTH: 42
 64 <212> TYPE: PRT
 65 <213> ORGANISM: Homo sapiens
 68 <220> FEATURE:
 69 <221> NAME/KEY: MISC_FEATURE
 70 <222> LOCATION: (1)..(1)
 71 <223> OTHER INFORMATION: Xaa is L-Asp, D-Asp, or L-iso Asp
 73 <400> SEQUENCE: 3

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W--> 75 Xaa Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val His His Gln Lys
      76 1          5          10          15
      79 Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile
      80          20          25          30
      83 Gly Leu Met Val Gly Gly Val Val Ile Ala
      84          35          40
      87 <210> SEQ ID NO: 4
      88 <211> LENGTH: 43
      89 <212> TYPE: PRT
      90 <213> ORGANISM: Homo sapiens
      92 <400> SEQUENCE: 4
      94 Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val His His Gln Lys
      95 1          5          10          15
      98 Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile
      99          20          25          30
     102 Gly Leu Met Val Gly Gly Val Val Ile Ala Thr
     103          35          40
     106 <210> SEQ ID NO: 5
     107 <211> LENGTH: 40
     108 <212> TYPE: PRT
     109 <213> ORGANISM: Homo sapiens
     112 <220> FEATURE:
     113 <221> NAME/KEY: MISC_FEATURE
     114 <222> LOCATION: (1)..(1)
     115 <223> OTHER INFORMATION: Xaa is pyroglutamate
     117 <400> SEQUENCE: 5
W--> 119 Xaa Phe Arg His Asp Ser Gly Tyr Glu Val His His Gln Lys Leu Val
      120 1          5          10          15
      123 Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile Gly Leu
      124          20          25          30
      127 Met Val Gly Gly Val Val Ile Ala
      128          35          40
      131 <210> SEQ ID NO: 6
      132 <211> LENGTH: 32
      133 <212> TYPE: PRT
      134 <213> ORGANISM: Homo sapiens
      137 <220> FEATURE:
      138 <221> NAME/KEY: MISC_FEATURE
      139 <222> LOCATION: (1)..(1)
      140 <223> OTHER INFORMATION: Xaa is pyroglutamate
      142 <400> SEQUENCE: 6
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      148 Asn Lys Gly Ala Ile Ile Gly Leu Met Val Gly Gly Val Val Ile Ala
      149          20          25          30
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      153 <211> LENGTH: 26
      154 <212> TYPE: PRT
      155 <213> ORGANISM: Homo sapiens

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Input Set : A:\00558852.txt

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157 <400> SEQUENCE: 7
159 Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile
160 1 5 10 15
163 Gly Leu Met Val Gly Gly Val Val Ile Ala
164 20 25
167 <210> SEQ ID NO: 8
168 <211> LENGTH: 14
169 <212> TYPE: PRT
170 <213> ORGANISM: Tetanus toxin bacteria
172 <400> SEQUENCE: 8
174 Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu
175 1 5 10
178 <210> SEQ ID NO: 9
179 <211> LENGTH: 15
180 <212> TYPE: PRT
181 <213> ORGANISM: Hepatitis B virus
183 <400> SEQUENCE: 9
185 Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Phe Gln Ser Leu Asp
186 1 5 10 15
189 <210> SEQ ID NO: 10
190 <211> LENGTH: 30
191 <212> TYPE: PRT
192 <213> ORGANISM: Pertussis toxin bacteria
194 <400> SEQUENCE: 10
196 Lys Lys Leu Arg Arg Leu Leu Tyr Met Ile Tyr Met Ser Gly Leu Ala
197 1 5 10 15
200 Val Arg Val His Val Ser Lys Glu Glu Gln Tyr Tyr Asp Tyr
201 20 25 30
204 <210> SEQ ID NO: 11
205 <211> LENGTH: 17
206 <212> TYPE: PRT
207 <213> ORGANISM: Tetanus toxin bacteria
209 <400> SEQUENCE: 11
211 Lys Lys Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu
212 1 5 10 15
215 Leu
219 <210> SEQ ID NO: 12
220 <211> LENGTH: 22
221 <212> TYPE: PRT
222 <213> ORGANISM: Tetanus toxin bacteria
224 <400> SEQUENCE: 12
226 Lys Lys Phe Asn Asn Phe Thr Val Ser Phe Trp Leu Arg Val Pro Lys
227 1 5 10 15
230 Val Ser Ala Ser His Leu
231 20
234 <210> SEQ ID NO: 13
235 <211> LENGTH: 15
236 <212> TYPE: PRT
237 <213> ORGANISM: Pertussis toxin bacteria

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Input Set : A:\00558852.txt

Output Set: N:\CRF4\10312005\I731899.raw

239 <400> SEQUENCE: 13
 241 Tyr Met Ser Gly Leu Ala Val Arg Val His Val Ser Lys Glu Glu
 242 1 5 10 15
 245 <210> SEQ ID NO: 14
 246 <211> LENGTH: 27
 247 <212> TYPE: PRT
 248 <213> ORGANISM: Tetanus toxin bacteria
 250 <400> SEQUENCE: 14
 252 Tyr Asp Pro Asn Tyr Leu Arg Thr Asp Ser Asp Lys Asp Arg Phe Leu
 253 1 5 10 15
 256 Gln Thr Met Val Lys Leu Phe Asn Arg Ile Lys
 257 20 25
 260 <210> SEQ ID NO: 15
 261 <211> LENGTH: 24
 262 <212> TYPE: PRT
 263 <213> ORGANISM: Pertussis toxin bacteria
 265 <400> SEQUENCE: 15
 267 Gly Ala Tyr Ala Arg Cys Pro Asn Gly Thr Arg Ala Leu Thr Val Ala
 268 1 5 10 15
 271 Glu Leu Arg Gly Asn Ala Glu Leu
 272 20
 275 <210> SEQ ID NO: 16
 276 <211> LENGTH: 15
 277 <212> TYPE: PRT
 278 <213> ORGANISM: Measles virus
 280 <400> SEQUENCE: 16
 282 Leu Ser Glu Ile Lys Gly Val Ile Val His Arg Leu Glu Gly Val
 283 1 5 10 15
 286 <210> SEQ ID NO: 17
 287 <211> LENGTH: 20
 288 <212> TYPE: PRT
 289 <213> ORGANISM: Measles virus
 291 <400> SEQUENCE: 17
 293 Gly Ile Leu Glu Ser Arg Gly Ile Lys Ala Arg Ile Thr His Val Asp
 294 1 5 10 15
 297 Thr Glu Ser Tyr
 298 20
 301 <210> SEQ ID NO: 18
 302 <211> LENGTH: 16
 303 <212> TYPE: PRT
 304 <213> ORGANISM: Tetanus toxin bacteria
 306 <400> SEQUENCE: 18
 308 Trp Val Arg Asp Ile Ile Asp Asp Phe Thr Asn Glu Ser Ser Gln Lys
 309 1 5 10 15
 312 <210> SEQ ID NO: 19
 313 <211> LENGTH: 16
 314 <212> TYPE: PRT
 315 <213> ORGANISM: Tetanus toxin bacteria
 317 <400> SEQUENCE: 19

RAW SEQUENCE LISTING

DATE: 10/31/2005

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TIME: 11:22:58

Input Set : A:\00558852.txt

Output Set: N:\CRF4\10312005\I731899.raw

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319 Asp Val Ser Thr Ile Val Pro Tyr Ile Gly Pro Ala Leu Asn His Val
320 1          5          10          15
323 <210> SEQ ID NO: 20
324 <211> LENGTH: 24
325 <212> TYPE: PRT
326 <213> ORGANISM: Chlamydia trachomatis
328 <400> SEQUENCE: 20
330 Ala Leu Asn Ile Trp Asp Arg Phe Asp Val Phe Cys Thr Leu Gly Ala
331 1          5          10          15
334 Thr Thr Tyr Leu Lys Glu Asn Ser
335          20
338 <210> SEQ ID NO: 21
339 <211> LENGTH: 23
340 <212> TYPE: PRT
341 <213> ORGANISM: Diphteria toxin bacteria
343 <400> SEQUENCE: 21
345 Asp Ser Glu Thr Ala Asp Asn Leu Glu Lys Thr Val Ala Ala Leu Ser
346 1          5          10          15
349 Ile Leu Pro Gly Ile Gly Cys
350          20
353 <210> SEQ ID NO: 22
354 <211> LENGTH: 39
355 <212> TYPE: PRT
356 <213> ORGANISM: Diphteria toxin bacteria
358 <400> SEQUENCE: 22
360 Glu Glu Ile Val Ala Gln Ser Ile Ala Leu Ser Ser Leu Met Val Ala
361 1          5          10          15
364 Gln Ala Ile Pro Leu Val Gly Glu Leu Val Asp Ile Gly Phe Ala Ala
365          20          25          30
368 Thr Asn Phe Val Glu Ser Cys
369          35
372 <210> SEQ ID NO: 23
373 <211> LENGTH: 21
374 <212> TYPE: PRT
375 <213> ORGANISM: Plasmodium falciparum
377 <400> SEQUENCE: 23
379 Asp Ile Glu Lys Lys Ile Ala Lys Met Glu Lys Ala Ser Ser Val Phe
380 1          5          10          15
383 Asn Val Val Asn Ser
384          20
387 <210> SEQ ID NO: 24
388 <211> LENGTH: 16
389 <212> TYPE: PRT
390 <213> ORGANISM: Schistoma mansoni
392 <400> SEQUENCE: 24
394 Lys Trp Phe Lys Thr Asn Ala Pro Asn Gly Val Asp Glu Lys Ile Arg
395 1          5          10          15
398 <210> SEQ ID NO: 25
399 <211> LENGTH: 14

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/731,899

DATE: 10/31/2005
TIME: 11:22:59

Input Set : A:\00558852.txt
Output Set: N:\CRF4\10312005\I731899.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; Xaa Pos. 1

Seq#:5; Xaa Pos. 1

Seq#:6; Xaa Pos. 1

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/731,899

DATE: 10/31/2005

TIME: 11:22:59

Input Set : A:\00558852.txt

Output Set: N:\CRF4\10312005\I731899.raw

L:75 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0

L:119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0

L:144 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0